

Mouse TNF Alpha/Tumor necrosis factor ELISA Kit | Tnf elisa kit

Mouse TNF Alpha/Tumor necrosis factor Quick ELISA Kit

CATALOG #
AAA125865

REACTIVITY
Mouse

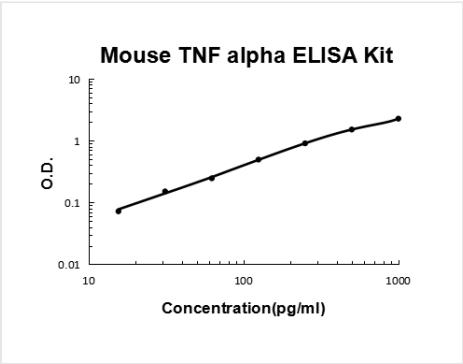
PRODUCT SYNONYMS

TNF Alpha/Tumor necrosis factor; Mouse TNF Alpha/Tumor necrosis factor Quick ELISA Kit; Tnf; Tnfa; Tnfsf2; Tumor necrosis factor; Cachectin; TNF-alpha; Tumor necrosis factor ligand superfamily member 2; TNF-a [Cleaved into: Tumor necrosis factor; membrane form; N-terminal fragment; NTF; Intracellular domain 1; ICD1; Intracellular domain 2; ICD2; C-domain 1; C-domain 2; soluble form]; Tnf elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Specificity	Natural and recombinant Mouse Tnf
Assay Type	Colorimetric sandwich
Samples	cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	15.6pg/ml-1,000pg/ml(cell culture supernatants) 7.8pg/ml-500pg/ml(mouse serum, plasma)
Sensitivity	<1pg/ml
Capture/Detection Antibodies	Capture antibody- monoclonal antibody from hamster Detection antibody- polyclonal antibody from goat
Sample Data	Concentration(pg/ml) 0 15.6 31.2 62.5 125 250 500 1000 O.D. 0.160 0.232 0.311 0.406 0.654 1.065 1.673 2.430
Intra-Assay Precision	Sample 1 2 3 n 16 16 16 Mean(pg/ml) 20 55 314 Standard deviation 1.04 3.74 23.55 CV(%) 5.2% 6.8% 7.5% 5.9% 7.3% 8.2%
Inter-Assay Precision	Sample 1 2 3 n 24 24 24 Mean(pg/ml) 18 63 350 Standard deviation 1.06 4.59 28.7 CV(%) 5.9% 7.3% 8.2%

Reproducibility	To assay reproducibility, three samples with differing target protein concentrations were assayed using four different lots. Lots: Lot 1 (pg/ml) Lot 2 (pg/ml) Lot 3 (pg/ml) Lot 4 (pg/ml) Mean (pg/ml) Standard Deviation CV (%) Sample 1: 20 22 18 19 19 0.89 4.7% Sample 2: 55 58 64 57 58 3.65 td>6.3% Sample 3: 314 297 303 287 300 8.1 2.7% *number of samples for each test n=16. Cross Reactivity There is no detectable cross-reactivity with other relevant proteins. Immunogen Expression system for standard: E Coli; Immunogen sequence: L80-L235 Anticoagulant heparin or EDTA Benefits The Quick ELISA kits, assay takes less than 1.5 hours. Detect Mouse Tnf with <1pg/ml sensitivity. Format: 96-well plate with removable strips. This is a TMB colorimetric sandwich ELISA kit with short assay time and quick experiment set up. Principle Mouse Tnf Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Mouse Tnf with a 96-well strip plate that is pre-coated with antibody specific for Tnf. The detection antibody is a HRP conjugated antibody specific for Tnf. The capture antibody is monoclonal antibody from hamster, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Mouse Tnf with immunogen: Expression system for standard: E Coli; Immunogen sequence: L80-L235 The kit is analytically validated with ready to use reagents. To measure Mouse Tnf, add standards and samples to the wells, then add HRP conjugated detection antibody. Wash the wells with PBS or TBS buffer, and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly propotional to Mouse Tnf in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Tnf in the sample. Assay Procedure Step 1 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.25pg/ml, 15.625pg/ml TMB Incubation Time 15
Cross Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Immunogen	Expression system for standard: E Coli; Immunogen sequence: L80-L235
Anticoagulant	heparin or EDTA
Benefits	The Quick ELISA kits, assay takes less than 1.5 hours. Detect Mouse Tnf with <1pg/ml sensitivity. Format: 96-well plate with removable strips. This is a TMB colorimetric sandwich ELISA kit with short assay time and quick experiment set up.
Principle	Mouse Tnf Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid phase immunoassay specially designed to measure Mouse Tnf with a 96-well strip plate that is pre-coated with antibody specific for Tnf. The detection antibody is a HRP conjugated antibody specific for Tnf. The capture antibody is monoclonal antibody from hamster, the detection antibody is polyclonal antibody from goat. The kit contains recombinant Mouse Tnf with immunogen: Expression system for standard: E Coli; Immunogen sequence: L80-L235 The kit is analytically validated with ready to use reagents. To measure Mouse Tnf, add standards and samples to the wells, then add HRP conjugated detection antibody. Wash the wells with PBS or TBS buffer, and add TMB. TMB is substrate to HRP and will be catalyzed to produce a blue color product, which changes into yellow after adding acidic stop solution. The density of the yellow product is linearly propotional to Mouse Tnf in the sample. Read the density of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Mouse Tnf in the sample.
Assay Procedure Step 1	1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml, 31.25pg/ml, 15.625pg/ml
TMB Incubation Time	15
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice.)



Application Data

ADDITIONAL INFORMATION

Related Product Information for Tnf elisa kit	Tumor necrosis factor-alpha(TNF-alpha, or TNF) is secreted by macrophages in response to inflammation, infection and cancer. Human Tumor Necrosis Factor(TNF) and Lymphotoxin(TNF-beta) are cytotoxic proteins which have similar biological activities and share 30% amino acid homology. TNF-alpha is produced by monocytes, which can stimulate endothelial cells to produce the multilineage growth factor granulocyte- macrophage colony-stimulating factor and extend the role of this immunoregulatory protein to the regulation of hematopoiesis in vitro. TNF is a soluble protein that causes damage to tumor cells but has no effect on normal cells. Human TNF has been purified to apparent homogeneity as a 17. 3-kilodalton protein from HL-60 leukemia cells and has showed cytotoxic and cytostatic activities against various human tumor cell lines. The human TNF cDNA is 1585 base pairs in length and encodes a protein of 233 amino acids. The mature protein begins at residue 77, leaving a long leader sequence of 76 amino acids. TNF-alpha has been mapped to human chromosome 6.
Product Categories/Family for Tnf elisa kit	ELISA kits

NCBI AND UNIPROT INFORMATION

NCBI GI #	518831589
NCBI GeneID	21926
NCBI Accession #	NP_001265530.1
NCBI GenBank Nucleotide #	NM_001278601.1
UniProt Accession #	P06804; O35853; Q62326; Q91VF3
Molecular Weight	25,896 Da
NCBI Official Full Name	tumor necrosis factor isoform 2
NCBI Official Synonym Full Names	tumor necrosis factor
NCBI Official Symbol	Tnf
NCBI Official Synonym Symbols	DIF; Tnfa; TNF-a; TNFSF2; Tnlg1f; Tnfsf1a; TNFalpha; TNF-alpha
NCBI Protein Information	tumor necrosis factor
UniProt Protein Name	Tumor necrosis factor
UniProt Gene Name	Tnf
UniProt Synonym Gene Names	Tnfa; Tnfsf2; TNF-a; NTF; ICD1; ICD2
UniProt Entry Name	TNFA_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/tnf-alpha-tumor-necrosis-factor/125865>